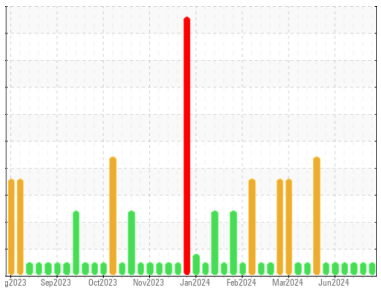
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
LIDM04BE (S/N GZJ00279)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (540 LTR)

DIAGNOSIS

Recommendation
Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition.

Wear
Les taux d`usure de tous les composants sont normaux.

Contamination
Il n`y a aucun indice de contamination dans l`huile.

Fluid Condition
Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l`huile. Le AN est acceptable pour ce fluide. L`état de l`huile permet d`en prolonger l`utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0904262**	WC0954717	WC0954711
Sample Date		Client Info		**02 Jul 2024**	25 Jun 2024	17 Jun 2024
Machine Age	hrs	Client Info		**51301**	51139	51038
Oil Age	hrs	Client Info		**642**	480	379
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Water		WC Method		**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>14	**3**	6	4
Chromium	ppm	ASTM D5185(m)	>3	**0**	<1	0
Nickel	ppm	ASTM D5185(m)		**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**3**	3	3
Lead	ppm	ASTM D5185(m)	>8	**0**	0	0
Copper	ppm	ASTM D5185(m)	>5	**<1**	1	1
Tin	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

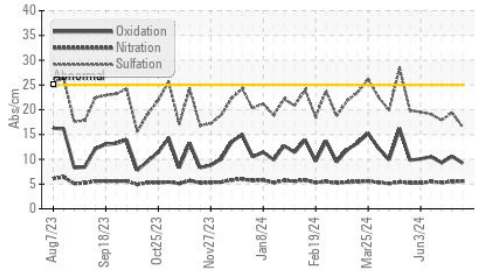
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**5**	6	6
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**5**	5	5
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**10**	9	9
Calcium	ppm	ASTM D5185(m)		**1746**	1690	1696
Phosphorus	ppm	ASTM D5185(m)		**236**	234	241
Zinc	ppm	ASTM D5185(m)		**295**	289	294
Sulfur	ppm	ASTM D5185(m)		**1594**	2270	1939
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>180	**32**	53	38
Sodium	ppm	ASTM D5185(m)	>20	**1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**5**	3	2

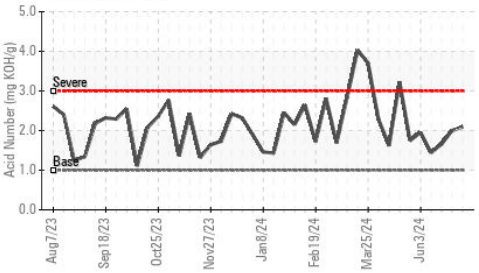
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*		**5.6**	5.5	5.3
Sulfation	Abs/.1mm	ASTM D7415*		**16.5**	19.4	17.9

OIL ANALYSIS REPORT

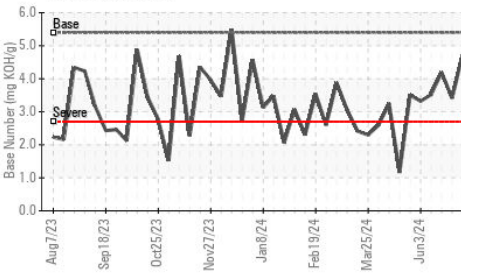
FT-IR (Direct Trend)



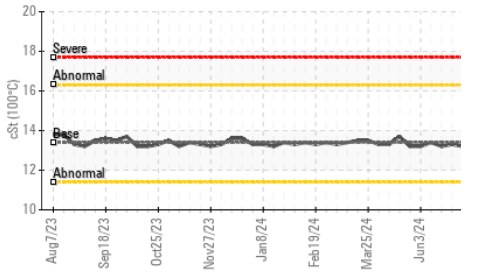
Acid Number



Base Number



Viscosity @ 100°C



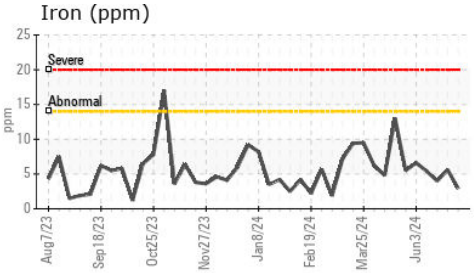
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**9.2**	10.6	9.3
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	**2.09**	2.00	1.66
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	**4.72**	3.41	4.19
i-pH	Scale 0-14	ASTM D7946*	<4.5	**6.21**	5.01	6.19

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*		**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

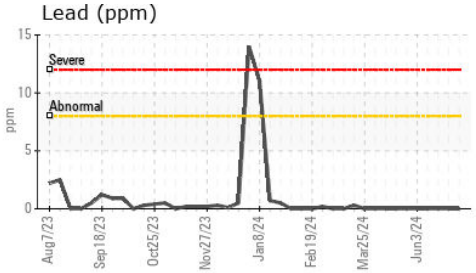
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.2**	13.3	13.2

GRAPHS

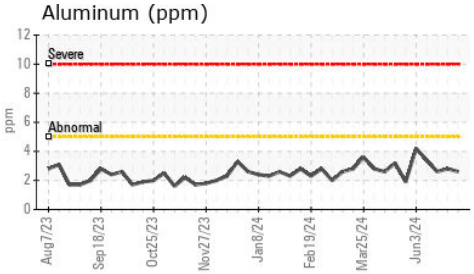
Iron (ppm)



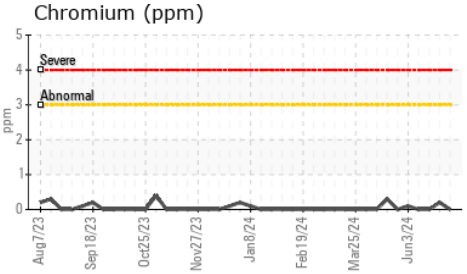
Lead (ppm)



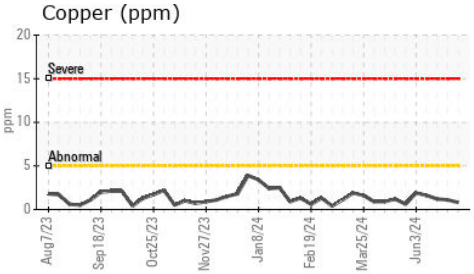
Aluminum (ppm)



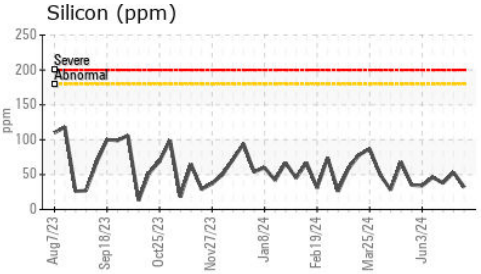
Chromium (ppm)



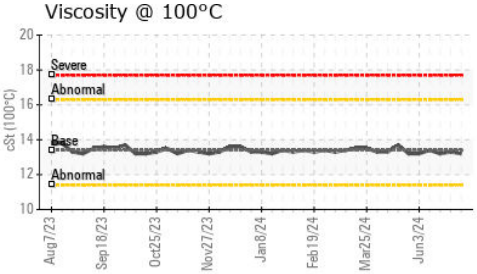
Copper (ppm)



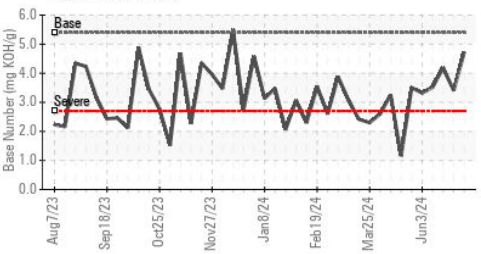
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904262 **Received** : 03 Jul 2024
Lab Number : 02645242 **Tested** : 09 Jul 2024
Unique Number : 5802781 **Diagnosed** : 09 Jul 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto, TAN Man)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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Report Id: LYDLAC [WCAMIS] 02645242 (Generated: 07/09/2024 15:23:03) Rev: 1

Submitted By: Simon Giroux